

L Number	Hits	Search Text	DB	Time stamp
1	2849	agent\$1 near20 rule\$1	USPAT; EPO; JPO; DERWENT	2004/07/06 11:17
2	72824	(predict\$4 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4) near10 (chang\$3 or impact\$3 or econom\$3 or environment\$2 or difference\$1)	USPAT; EPO; JPO; DERWENT	2004/07/06 10:59
3	200	(agent\$1 near20 rule\$1) and ((predict\$4 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4) near10 (chang\$3 or impact\$3 or econom\$3 or environment\$2 or difference\$1))	USPAT; EPO; JPO; DERWENT	2004/07/06 10:30
4	29246	(predict\$4 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4) near10 (global\$2 or communit\$3 or improv\$5 or militar\$4 or campaign\$3)	USPAT; EPO; JPO; DERWENT	2004/07/06 11:16
5	220	(agent\$1 near20 rule\$1) and (((predict\$4 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4) near10 (chang\$3 or impact\$3 or econom\$3 or environment\$2 or difference\$1)) or ((predict\$4 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4) near10 (global\$2 or communit\$3 or improv\$5 or militar\$4 or campaign\$3)))	USPAT; EPO; JPO; DERWENT	2004/07/06 11:01
6	8380	(predict\$4 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4) near10 (financ\$5 or bank\$3 or market\$3)	USPAT; EPO; JPO; DERWENT	2004/07/06 11:16
7	2718	agent\$1 near15 rule\$1	USPAT; EPO; JPO; DERWENT	2004/07/06 11:17
8	9876	(agent\$1 or bot\$1) near15 rule\$1	USPAT; EPO; JPO; DERWENT	2004/07/06 11:17
9	1014	((agent\$1 or bot\$1) near15 rule\$1) and (((predict\$4 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4) near10 (chang\$3 or impact\$3 or econom\$3 or environment\$2 or difference\$1)) or ((predict\$4 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4) near10 (global\$2 or communit\$3 or improv\$5 or militar\$4 or campaign\$3)) or (((predict\$4 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4) near10 (financ\$5 or bank\$3 or market\$3)))	USPAT; EPO; JPO; DERWENT	2004/07/06 11:18

10	3	((agent\$1 or bot\$1) near15 rule\$1) and (((predict\$4 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4) near10 (chang\$3 or impact\$3 or econom\$3 or environment\$2 or difference\$1)) or ((predict\$4 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4) near10 (global\$2 or communit\$3 or improv\$5 or militar\$4 or campaign\$3)) or (((predict\$4 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4) near10 (financ\$5 or bank\$3 or market\$3)))) and (microsimulat\$5 or micro adj2 (simulat\$5 or model\$3))	USPAT; EPO; JPO; DERWENT	2004/07/06 11:21
11	220	((agent\$1 or bot\$1) near15 rule\$1) and (((predict\$4 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4) near10 (chang\$3 or impact\$3 or econom\$3 or environment\$2 or difference\$1)) or ((predict\$4 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4) near10 (global\$2 or communit\$3 or improv\$5 or militar\$4 or campaign\$3)) or (((predict\$4 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4) near10 (financ\$5 or bank\$3 or market\$3)))) and 706/\$.ccls.	USPAT; EPO; JPO; DERWENT	2004/07/06 11:33
12	254	((agent\$1 or bot\$1) near15 rule\$1) near70 (predict\$5 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4)	USPAT; EPO; JPO; DERWENT	2004/07/06 11:34
13	65	((agent\$1 or bot\$1) near15 rule\$1) near70 (predict\$5 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4)) and 706/\$.ccls.	USPAT; EPO; JPO; DERWENT	2004/07/06 14:02
14	189	((agent\$1 or bot\$1) near15 rule\$1) near70 (predict\$5 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4)) not (((agent\$1 or bot\$1) near15 rule\$1) near70 (predict\$5 or forecast\$3 or fore adj cast\$3 or model\$3 or simulat\$4)) and 706/\$.ccls.)	USPAT; EPO; JPO; DERWENT	2004/07/06 14:03

```

exs
Executing TD599
HILIGHT set on as '%'
>>>File 20 processing for CAST? stopped at CASTLERIG
Processing
Processing
Processed 10 of 15 files ...
Completed processing all files
      2754351 AGENT?
     11930206 ECONOM?
     2425228 MILITAR?
     3367759 PREDICT?
     3194653 FORECAST?
       95263 FORE
     1523431 CAST?
       1071 FORE(W)CAST?
S1 684604 (AGENT? OR ECONOM? OR MILITAR?) (15N) (PREDICT? OR
          FORECAST? OR FORE(W)CAST?)

? e au=pryor r

```

Ref	Items	Index-term
E1	14	*AU=PRYOR R
E2	10	AU=PRYOR R A
E3	1	AU=PRYOR R E
E4	1	AU=PRYOR R G L
E5	2	AU=PRYOR R J
E6	1	AU=PRYOR R L
E7	3	AU=PRYOR R N
E8	19	AU=PRYOR R W
E9	1	AU=PRYOR RAY
E10	2	AU=PRYOR ROBERT J
E11	1	AU=PRYOR ROGER W
E12	6	AU=PRYOR S

Enter P or PAGE for more

```

? s e1,e5
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
      14 AU=PRYOR R
       2 AU=PRYOR R J
S2      16 E1,E5

? e au=pryor, r

```

Ref	Items	Index-term
E1	0	*AU=PRYOR, R
E2	7	AU=PRYOR, R.
E3	23	AU=PRYOR, R. A.
E4	1	AU=PRYOR, R. D.
E5	23	AU=PRYOR, R. J.
E6	4	AU=PRYOR, R. L.
E7	9	AU=PRYOR, R. W.
E8	1	AU=PRYOR, RICHARD
E9	1	AU=PRYOR, ROB
E10	2	AU=PRYOR, ROBERT
E11	1	AU=PRYOR, ROBERT G L
E12	2	AU=PRYOR, ROBERT G. L.

Enter P or PAGE for more

```

? s e2,e5,e8
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
       7 AU=PRYOR, R.
      23 AU=PRYOR, R. J.
       1 AU=PRYOR, RICHARD

```

S3 31 E2,E5,E8
? s s1 and (s2 or s3)
684604 S1
16 S2
31 S3
S4 1 S1 AND (S2 OR S3)
? t s4/6/1

4/6/1 (Item 1 from file: 6)
1955610 NTIS Accession Number: DE96006817
Development of Aspen: A microanalytic simulation model of the US economy
Feb 96
? t s4/9/1

4/9/1 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS
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1955610 NTIS Accession Number: DE96006817
Development of Aspen: A microanalytic simulation model of the US economy
%Pryor, R. J. %; Basu, N. ; Quint, T.
Sandia National Labs., Albuquerque, NM.
Corp. Source Codes: 068123000; 9511100
Sponsor: Department of Energy, Washington, DC.
Report No.: SAND-96-0434
Feb 96 12p
Languages: English
Journal Announcement: GRAI9617; ERA9629
Sponsored by Department of Energy, Washington, DC.
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NTIS Prices: PC A03/MF A01
Country of Publication: United States
Contract No.: AC04-94AL85000
This report describes the development of an agent-based microanalytic simulation model of the US economy. The microsimulation model capitalizes on recent technological advances in evolutionary learning and parallel computing. Results are reported for a test problem that was run using the model. The test results demonstrate the model's ability to %predict% business-like cycles in an %economy% where prices and inventories are allowed to vary. Since most %economic% %forecasting% models have difficulty %predicting% any kind of cyclic behavior. These results show the potential of microanalytic simulation models to improve economic policy analysis and to provide new insights into underlying economic principles. Work already has begun on a more detailed model.
Descriptors: %Economy%; Computerized Simulation; %Forecasting%; Industry; Investment; Mathematical Models; Parallel Processing; Sales
Identifiers: EDB/290201; NTISDE
Section Headings: 97G (Energy--Policies, Regulations, and Studies)

6/9/11 (Item 1 from file: 103)
DIALOG(R)File 103:Energy SciTec
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03975276 EDB-96-059036

Title: Development of %Aspen%: A %microanalytic% %simulation% %model% of
the US %economy%

Author(s)/Editor(s): Pryor, R.J.; Basu, N.; Quint, T.

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Country of Origin: United States

Country of Publication: United States

Abstract: This report describes the development of an %agent%-based
microanalytic simulation model of the US %economy%. The microsimulation
model capitalizes on recent technological advances in evolutionary
learning and parallel computing. Results are reported for a test
problem that was run using the model. The test results demonstrate the
model's ability to %predict% business-like cycles in an %economy% where
prices and inventories are allowed to vary. Since most %economic%
forecasting models have difficulty %predicting% any kind of cyclic
behavior. These results show the potential of microanalytic simulation
models to improve %economic% policy analysis and to provide new
insights into underlying %economic% principles. Work already has begun
on a more detailed model.

Major Descriptors: %ECONOMY% -- MATHEMATICAL MODELS

Descriptors: COMPUTERIZED SIMULATION; FORECASTING; INDUSTRY; INVESTMENT;
PARALLEL PROCESSING; SALES

ds

Set	Items	Description
S1	20953	(AGENT OR AGENTS OR BOT OR BOTS) (10N) (RULE OR RULES) OR MODUL? (10N) (DECISION(W) RULE?)
S2	169070	(PREDICT? OR FORECAST? OR FORE(W) CAST? OR MODEL? OR SIMULAT?) (10N) (CHANG? OR IMPACT? OR INFLUEN? OR DIFFERENCE?) (10N) (ECONOM? OR ENVIRONMENT? OR GLOBAL? OR PLANT OR MILITAR? OR CAMPAIGN?)
S3	458	S1 AND S2
S4	342	RD (unique items)
S5	121	S4 NOT PY>1996
S6	225	(AGENT OR AGENTS OR BOT OR BOTS OR MODUL?) (7N) (DECISION(W) - RULE?)
S7	8	S5 AND S6
S8	82	S6 NOT PY>1996
S9	61	RD (unique items)
S10	20	S9 AND (PREDICT? OR FORECAST? OR FORE(W) CAST?)
S11	12	S10 NOT S7

? logoff

at least title

L1 11 SEA (PREDICT? OR FORECAST? OR FORE CAST? OR MODEL? OR SIMU
 LAT ?) (5A) (CHANGE# OR CHANGING OR ACTIVIT?) (5A)ECONOM?
 L2 1250 SEA (PREDICT? OR FORECAST? OR FORE CAST? OR MODEL? OR SIMU
 LAT ?) (10A)ECONOM?
 L3 30 SEA L2 AND 705/CLAS
 L4 12 SEA L3 AND RULE#
 L5 901 SEA DECISIONMAKER# OR DECISION(W) (MAKER# OR UNIT#)
 L6 DEL 12 S L3 AND L4
 L6 1 SEA L4 AND L5
 L7 2 SEA L3 AND L5
 L8 5 SEA L2 AND L5
 L9 3 SEA AGENT## (P) L5
 L10 38 SEA L5 (P) RULE#
 L11 2 SEA L10 AND 705/CLAS
 L12 36 SEA L10 NOT L11
 L13 14 SEA L12 AND 364/CLAS
 L14 672 SEA (HOUSEHOLD## OR HOUSE HOLD# OR INDIVIDUAL##) AND GOVER
 NME NT## AND (INDUSTR### OR FIRM##) AND BANK###
 L15 6 SEA L5 AND L14
 L16 522 SEA MICROECONOMIC? OR MICROSIMULAT? OR MICROANALYTIC?
 L17 0 SEA L5 AND L16
 L18 2 SEA L14 AND L16
 L19 1 SEA L2 AND L16
 L20 4505 SEA MESSAGE# (5A) ROUT?
 L21 79 SEA L20 (P) AGENT#
 L22 2 SEA L5 AND L21

Search Options:

Search for both singular and plurals: YES
Search for spelling variants : YES
Display intermediate result sets : NO

Num	Search	Hits
#1	(predict? or model? or forecast? or simulat?) w/10 econom?	15703
#2	microeconom?	502
#3	#1 and #2	235
#4	agent?	9832
#5	#3 and #4	27
#6	(predict? or model? or forecast? or simulat?) w/5 (chang? or activit?) w/5 econom?	618
#7	#2 and #6	6
#8	artificial intelligence or neural network? or neurocomputer? or expert system? or heuristic?	4300
#9	#6 and #8	2

Search Options:

Search for both singular and plurals: YES
Search for spelling variants : YES
Display intermediate result sets : NO

Num	Search	Hits
#1	(predict? or forecast? or fore cast? or model? or simulat?) w/5 (chang? or activit?) w/5 econom?	18
#2	microeconom?	31
#3	agent?	1853
#4	#2 and #3	0
#5	decisionmaker? or decision maker?	93
#6	#2 and #5	0
#7	#3 and #5	1
#8	#1 and #2	0

Search Options:

Search for both singular and plurals: YES
Search for spelling variants : YES
Display intermediate result sets : NO

Num	Search	Hits
#1	(predict? or forecast? or fore cast? or model? or simulat?) w/10 econom?	883
#2	decisionmaker? or decision w/1 (maker? or unit?)	64
#3	#1 and #2	2
#4	agent	1366
#5	#2 and #4	4
#6	microeconom? or microsimulat? or microanaly?	3
#7	#1 and #4	11
#8	(predict? or forecast? or forecast? or model? or simulat?) w/5 (chang? or activit?) w/5 econom?	27
#9	#2 and #8	0
#10	#4 and #8	1

ds

Set	Items	Description
S1	29216	(PREDICT? OR FORECAST? OR FORE(W) (CAST? OR TELL?) OR MODEL? OR SIMULAT?) (7N) (CHANG? OR ACTIVIT?) (7N)ECONOM?
S2	22979	S1 AND PY<1997
S3	79655	DECISION(W) (MAKER OR MAKERS OR UNIT OR UNITS) OR DECISIONM- AKER??
S4	580	S2 AND S3
S5	1286	S3(S)AGENT??
S6	27	S2 AND S5
S7	18	RD (unique items)
S8	14711	MICROECONOM? OR MICROSIMULAT? OR MICROANALYTIC?
S9	6	S7 AND S8
S10	100	AGENT? (20N) (DECISIONRULE?? OR DECISION(W)RULE?)
S11	7	S4 AND S10
S12	4	RD (unique items)
S13	0	AGENT? (20A)MESSAG?
S14	12065	AGENT? (20N)MESSAG?
S15	0	S7 AND S14
S16	0	S4 AND S15
S17	0	S4 AND S14
S18	7	S2 AND S14
S19	5	RD (unique items)
S20	10923	ROUT? (5N)MESSAG?
S21	0	S4 AND S20
S22	68	S4 AND S8
S23	51	S22 AND RULE??
S24	34	RD (unique items)
S25	5	S24 AND MESSAG?
S26	28	S24 NOT S9
S27	27	S26 NOT S12
S28	27	S27 NOT S19
S29	4	S28 AND MESSAG?
S30	23	S28 NOT S29
S31	9	S30 AND AGENT?
S32	14	S30 NOT S31
S33	164	S4 AND AGENT??
S34	115	RD (unique items)
S35	12	S34 AND LUCAS
S36	286	E1,E6-E8
S37	203	E4,E8-E9
S38	341	S36 OR S37
S39	114	E1,E5-E11
S40	455	S38 OR S39
S41	3	AU="LUCAS ROBERT"
S42	458	S40 OR S41
S43	0	S4 AND S42
S44	2	S2 AND S42
S45	2	S8 AND S42
S46	0	S3 AND S42
S47	6	S42 AND AGENT?
S48	6	RD (unique items)
S49	141	S42 AND PY<1982
S50	93	S42 AND PY<1980
S51	48	S49 NOT S50
S52	9	S51 AND ECONOM?
S53	2	S52 AND MODEL?